

DSP8008

IP Network Ceiling Speaker



Description

The IP Network Ceiling Speaker is engineered to deliver high-performance audio and intelligent communication in modern networked environments. Featuring an 8-inch full-range driver with a built-in Class-D amplifier, it ensures clear and powerful sound with wide coverage. Supporting PoE, SIP, and ONVIF protocols, it enables seamless integration in background music, paging, and security applications.

Features

- Built-in 15W Class-D power amplifier with a frequency response range of 60Hz to 17KHz and a maximum sound pressure level of 109dB.
- Supports PoE (IEEE802.3af/at) or external power supply (DC 24V 2A).
- Supports 48K OPUS high-quality audio codec.
- Compatible with the standard SIP protocol and ONVIF protocols, allowing integration with network cameras for security applications.
- Supports parameters configuration via web interface or software tools.
- Supports multiple SIP accounts, allowing registration on up to three SIP systems for different functional requirements.
- Alarm input interface supports HTTP API alarm signal transmission and pre-recorded audio playback.
- Built-in microphone design with excellent sound pickup, combined with an external button for easy two-way communication.
- Can be connected to an 8Ω 15W analog sub speaker.

Specifications

Model	DSP8008
Speaker	
Speaker Unit	8" full-range driver
Sensitivity	97dB/1m/1W
MAX. SPL.	109dB
Amplifier	Class-D power amplifier
Rated Power	DC: 8Ω 15W or PoE: af-8Ω 8W / at-8Ω 15W
Frequency Response	60Hz~17KHz
Coverage	90°H×90°V, effective range 30 m²
Audio	Mono
Microphone	
Microphone	Electret condenser microphone
Directivity	Omnidirectional
Installation Method	Built-in
Sensitivity	-36dB±2dB
S/N Ratio	65dB
Input MAX. SPL.	110dB (THD≤3%)
Maximum Pickup Distance	Up to 10m in front under 50dB ambient noise
THD at Rated Power @1KHz	0.2%
Audio	
Audio Codec	G.722, G.711 A-law, G.711 U-law, Opus
Audio Streaming	MP3 with 8-48KHz sampling rate, 64-320kbps bitrate, mono or stereo
Interface	
Interface	1×RJ45 port (with PoE support)
	1×10-pin 3.5mm Phoenix terminal block (for dry contact, switch signal, button, button indicator, and sub speaker)
	1×DC jack (5.5×2.1mm)
Network	
Network Interface	10/100Mbps, support PoE IEEE 802.3af/at
Network Protocol	SIP (RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH
Management	
Configuration Interface	Web management interface or auto-provisioning server
Auto-Provisioning	MQTT IoT protocol
Hardware Parameters	
Memory	128MB RAM, 256MB flash
Power Input	PoE IEEE802.af/at adaptive or DC 24V-2A input
Enclosure	ABS
Color	White
Weight	1.2KG
Dimensions	∅ 232×132mm
Installation Method	Ceiling cut-out with spring clamp fixation
Environment Parameters	
Installation Environment	Indoor

Operating Temperature	-20℃-50℃ (-4℉-122℉)
Storage Temperature	-40℃-70℃ (-40℉-158℉)
Humidity	10%-95% RH, non-condensing
Certification	
Certification	EN 55032:2015, EN 55035:2017, EN61000-3-2:2014, EN 61000-3-3:2013, EN 62368-1:2014+A11:2017, FCC Pat 15B

Frequency Response
(dB SPL, 1W, 1m)

